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I.S. EN 9300-004:2013

# Aerospace series - LOTAR - Long Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data - Part 004: Description methods

# I.S. EN 9300-004:2013

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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Údarás um Chaighdeáin Náisiúnta na hÉireann

# EUROPEAN STANDARD

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English Version

## Aerospace series - LOTAR - Long Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data - Part 004: Description methods

This European Standard was approved by CEN on 24 November 2012.

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# Foreword

This document (EN 9300-004:2013) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2013, and conflicting national standards shall be withdrawn at the latest by July 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

# Introduction

This European Standard was prepared jointly by ASD-STAN and the PROSTEP iViP Association.

The PROSTEP iViP Association is an international non-profit association in Europe. For establishing leadership in IT-based engineering, it offers a moderated platform to its nearly 200 members from leading industries, system vendors and research institutions. Its product and process data standardization activities at European and worldwide levels are well known and accepted. The PROSTEP iViP Association sees this European Standard and the related parts as a milestone of product data technology.

Users should note that all European Standards undergo revision from time to time and that any reference made herein to any other standard implies its latest edition, unless otherwise stated.

All EN 9300-xxx standards quoted in this document have been either published as ASD-STAN prestandards or are in preparation at the date of this European Standard.

# 1   Scope

This European Standard presents methods which are divided into four main categories:

1)   scope and scenario description;

2)   process description;

3)   data;

4)   system architecture.

For scope and scenario description, the modelling methods are based on Unified Modelling Language (UML) Use Case diagrams. The process descriptions are done using Simplified Activity diagrams. Data modules are described by Express G diagrams. Rules and constraints are described via Express-Where-Rules. Further descriptions, for example, for a data dictionary, are based on tabular forms.

To support the development of a system architecture, the modelling method of UML Package diagrams is used.

# 2   Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 9300-007, *Aerospace series — LOTAR — Long Term Archiving and Retrieval of digital technical product documentation such as 3D, CAD and PDM data — Part 007: Terms and References* [1]

ISO 10303-11, *Industrial automation systems and integration — Product data representation and exchange — Part 11: Description methods: The EXPRESS language reference manual*

# 3   Terms, definitions and abbreviations

For the purposes of this document, the terms, definitions and abbreviations given in EN 9300-007 apply.

# 4   Applicability

EN 9300-004 provides an overview of the used methods to support an equal level of understanding of the standards context. EN 9300-004 recommends the usage of standardized methods.

If not otherwise specified by contractual requirements, EN 9300-004 is applicable to all records which provide objective evidence covering:

a)   archiving requirements;

b)   data quality requirements.

EN 9300-004 is applicable to existing records, on current and earlier products, produced using previous regulations.

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[1]   Published as ASD-STAN Prestandard at the date of publication of this standard (www.asd-stan.org).

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